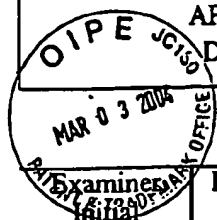


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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SP	5,121,454	06/1992	Iwanot et al.			
↑	5,231,686	07/1993	Rabinovich			
	5,404,416	04/1995	Iwano et al.			
	5,528,711	06/1996	Iwano et al.			
	5,537,501	07/1996	Iwano et al.			
	5,673,346	09/1997	Iwano et al.			
	5,751,874	05/1998	Chudoba et al.			
	5,796,894	08/1998	Csipkes et al.			
	5,855,503	01/1999	Csipkes et al.			
SP	6,309,113	10/2001	Naito			

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Examiner Initial	Document No.	Date	Country	Translation Yes No

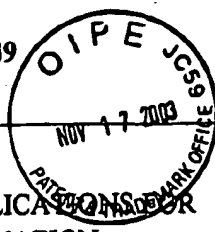
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SP	http://www.sct-ceramics.com/an/materiaux.html , SCT-Ceramics.Com, 1 page, printed March 25, 2003.
↑	wysiwyg://32/http://www.toto.co.jp/E_Cera/opt_03.htm, TOTO Precision Ceramics & Optical Components, 3 pages, printed May 16, 2003.
	http://www.senko.com/fiberoptic/detail_product.php?product=98 , SENKO ADVANCEDCOMPONENTS Zirconia Sleeves and Tubes, 2 pages, printed May 16, 2003.
	http://www.adamant.co.jp , Sleeves, 2 pages, Adamant Kogyo Co., Ltd., printed prior to filing date, 7/16/03
	www.sct-ceramics.com/an/microtubes.html , High Precision Microtubes, 1 sheet, printed prior to filing date, 7/16/03
	http://www.microtools1.com , Sleeves, Micro Tools, Ltd., 2 pages, printed prior to filing date, 7/16/03
↓	Zirconia Ceramic Sleeve, Nano Solution Corp, 1 page, printed prior to filing date, 7/16/03
SP	Uncontrolled document C-01-1101-00, printed prior to filing date, 7/16/03

EXAMINER: <i>Sum-pak</i>	DATE CONSIDERED: 3/10/05
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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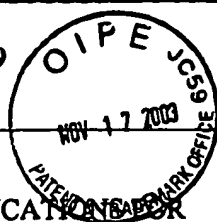
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SP	US2001/0004414 A1	06/21/2001	Kuhn et al.			
↑	US2002/0154675 A1	10/24/2002	Deng et al.			
	US2003/0072526 A1	04/17/2003	Kathman et al.			
	4,317,085	02/23/1982	Brunham et al.			
	4,466,694	08/21/1984	MacDonald			
	4,660,207	04/21/1987	Svilans			
	4,675,058	06/23/1987	Plaster			
	4,784,722	11/15/1988	Liau et al.			
	4,885,592	12/05/1989	Kofol et al.			
	4,901,327	02/13/1990	Bradley			
	4,943,970	07/24/1990	Bradley			
	4,956,844	09/11/1990	Goodhue et al.			
	5,031,187	07/09/1991	Orenstein et al.			
	5,052,016	09/24/1991	Mahbobzadeh			
	5,056,098	10/08/1991	Anthony et al.			
	5,062,115	10/29/1991	Thornton			
	5,068,869	11/26/1991	Wang et al.			
	5,079,774	01/07/1992	Mendez et al.			
	5,115,442	05/19/1992	Lee et al.			
	5,117,469	05/26/1992	Cheung et al.			
	5,140,605	08/18/1992	Paoli et al.			
✓	5,157,537	10/20/1992	Rosenblatt et al.			
SP	5,158,908	10/27/1992	Blonder et al.			

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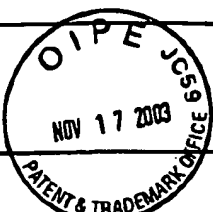
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SP	5,212,706	05/18/1993	Jain			
↑	5,216,263	06/01/1993	Paoli			
	5,216,680	06/01/1993	Magnusson et al.			
	5,237,581	08/17/1993	Asada et al.			
	5,245,622	09/14/1993	Jewell et al.			
	5,258,990	11/02/1993	Olbright et al.			
	5,262,360	11/16/1993	Holonyak, Jr. et al.			
	5,285,466	02/08/1994	Tabatabaie			
	5,293,392	03/08/1994	Shieh et al.			
	5,317,170	05/31/1994	Paoli			
	5,317,587	05/31/1994	Ackley et al.			
	5,325,386	06/28/1994	Jewell et al.			
	5,331,654	07/19/1994	Jewell et al.			
	5,337,074	08/09/1994	Thornton			
	5,337,183	08/09/1994	Rosenblatt et al.			
	5,349,599	09/20/1994	Larkins			
	5,351,256	09/27/1994	Schneider et al.			
	5,359,447	10/25/1994	Hahn et al.			
	5,359,618	10/25/1994	Lebby et al.			
	5,363,397	11/08/1994	Collins et al.			
	5,373,520	12/13/1994	Shoji et al.			
	5,373,522	12/13/1994	Holonyak, Jr., et al.			
↓	5,376,580	12/27/1994	Kish et al.			
SP	5,386,426	01/31/1995	Stephens			

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68	5,390,209	02/14/1995	Vakhshoori			
↑	5,396,508	03/17/1995	Bour et al.			
	5,404,373	04/04/1995	Cheng			
	5,412,678	05/02/1995	Treat et al.			
	5,412,680	05/02/1995	Swirhum et al.			
	5,416,044	05/16/1995	Chino et al.			
	5,428,634	06/27/1995	Bryan et al.			
	5,438,584	08/01/1995	Paoli et al.			
	5,446,754	08/29/1995	Jewell et al.			
	5,465,263	11/07/1995	Bour et al.			
	5,475,701	12/12/1995	Hibbs-Brenner			
	5,493,577	02/1996	Choquette et al.			
	5,497,390	03/05/1996	Tanaka et al.			
	5,513,202	04/30/1996	Kobayashi et al.			
	5,530,715	06/25/1996	Shieh et al.			
	5,555,255	09/10/1996	Kock et al.			
	5,557,626	09/17/1996	Grodinski et al.			
	5,561,683	10/01/1996	Kwon			
	5,567,980	10/22/1996	Holonyak, Jr. et al.			
	5,568,498	10/22/1996	Nilsson			
	5,568,499	10/22/1996	Lear			
	5,574,738	11/12/1996	Morgan			
	5,581,571	12/1996	Holonyak, Jr. et al.			
↓	5,586,131	12/17/1996	Ono et al.			
58	5,590,145	12/31/1996	Nitta			

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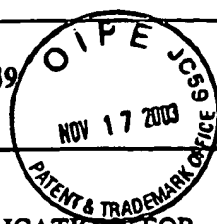
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SP	5,598,300	01/28/1997	Magnusson et al.			
↑	5,606,572	02/25/1997	Swirhun et al.			
	5,625,729	04/29/1997	Brown			
	5,642,376	06/24/1997	Olbright et al.			
	5,645,462	07/08/1997	Banno et al.			
	5,646,978	07/08/1997	Kem et al.			
	5,648,978	07/15/1997	Sakata			
	5,679,963	10/21/1997	Klem et al.			
	5,692,083	11/25/1997	Bennett			
	5,696,023	12/09/1997	Holonyak, Jr., et al.			
	5,699,373	12/16/1997	Uchida et al.			
	5,712,188	01/27/1998	Chu et al.			
	5,726,805	03/10/1998	Kaushik, et al.			
	5,727,013	03/10/1988	Botez et al.			
	5,727,014	03/10/1988	Wang et al.			
	5,774,487	06/30/1998	Morgan			
	5,778,018	07/07/1998	Yoshikawa et al.			
	5,781,575	07/14/1998	Nilsson			
	5,784,399	07/21/1998	Sun			
	4,790,733	08/04/1998	Smith et al.			
	5,805,624	09/08/1998	Yang et al.			
	5,818,066	10/06/1998	Duboz			
↓	5,828,684	10/27/1998	Van de Walle			
RP	5,838,705	11/17/1998	Shieh et al.			

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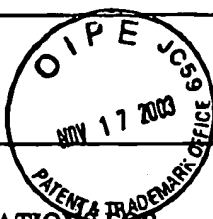
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SR	5,838,715	11/17/1998	Corzine et al.			
↑	5,892,784	04/06/1999	Tan et al.			
	5,892,787	04/06/1999	Tan et al.			
	5,896,408	04/20/1999	Corzine et al.			
	5,901,166	05/04/1999	Nitta et al.			
	5,903,588	05/1999	Guenter et al.			
	5,903,589	05/1999	Jewell			
	5,903,590	05/11/1999	Hadley et al.			
	5,908,408	06/1999	McGary et al.			
	5,936,266	08/10/1999	Holonyak, Jr. et al.			
	5,940,422	08/17/1999	Johnson			
	5,953,362	09/14/1999	Pamulapati et al.			
	5,978,401	11/02/1999	Morgan			
	5,978,408	11/1999	Thornton			
	5,995,531	11/30/1999	Gaw et al.			
	6,002,705	12/14/1999	Thornton			
	6,008,675	12/28/1999	Handa			
	6,014,395	01/11/2000	Jewell			
	6,043,104	03/28/2000	Uchida et al.			
	6,046,065	04/04/2000	Goldstein et al.			
	6,055,262	04/25/2000	Cox et al.			
	6,052,398	04/18/2003	Brillouet et al.			
	6,060,743	05/09/2000	Sugiyama et al.			
↓	6,078,601	06/20/2000	Smith			
SR	6,086,263	07/11/2000	Selli et al.			

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SP	6,133,590	10/17/2000	Ashley et al.			
	6,144,682	11/07/2000	Sun			
	6,154,480	11/28/2000	Magnusson et al.			
	6,185,241	02/06/2001	Sun			
	6,191,890	02/20/2001	Baets et al			
	6,208,681 B1	03/27/2001	Thorton			
	6,212,312	04/03/2001	Grann et al			
	6,238,944 B1	05/29/2001	Floyd			
	6,269,109 B1	07/31/2001	Jewell			
	6,297,068	10/02/2001	Thornton			
	6,302,596	10/16/2001	Cohen et al.			
	6,339,496	01/15/2002	Koley et al.			
	6,369,403	04/09/2002	Holonyak, Jr.			
	6,372,533 B2	04/16/2002	Jayaraman et al.			
	6,392,257	05/21/2002	Ramdani et al.			
	6,410,941	06/25/2002	Taylor et al.			
	6,411,638	06/25/2002	Johnson et al.			
	6,427,066	07/30/2002	Grube			
	6,455,879	09/24/2002	Ashley et al.			
	6,459,709	10/01/2002	Lo et al.			
	6,459,713	10/01/2002	Jewell			
	6,462,360	10/08/2002	Higgins, Jr. et al.			
	6,472,694	10/29/2002	Wilson et al.			
SP	6,477,285	11/05/2002	Shanley			

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<i>SP</i>	6,487,230	11/26/2002	Boucart et al.			
<i>↑</i>	6,487,231	11/26/2002	Boucart et al.			
	6,490,311	12/03/2002	Boucart et al.			
	6,493,371	12/10/2002	Boucart et al.			
	6,493,372	12/10/2002	Boucart et al.			
	6,493,373	12/10/2002	Boucart et al.			
	6,496,621	12/17/2002	Kathman et al.			
	6,498,358	12/24/2002	Lach et al.			
	6,501,973	12/31/2002	Foley et al.			
	6,515,308	02/04/2003	Kneissl et al.			
	6,535,541	03/18/2003	Boucart et al.			
	6,536,959	03/25/2003	Kuhn et al.			
<i>↓</i>	6,542,531	04/01/2003	Sirbu et al.			
<i>SP</i>	6,567,435	05/20/2003	Scott et al.			

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Examiner Initial	Document No.	Date	Country	Translation Yes No
<i>SP</i>	JP 60123084	01/07/1985	JP	Abstract
<i>↑</i>	EP 0288184 A2	10/26/1988	EP	
	JP 02054981	02/23/1990	JP	Abstract
	JP 5299779	11/12/1993	JP	Abstract
	DE 4240706 A1	06/09/1994	DE	Abstract
<i>↓</i>	EP 0776076 A1	05/28/1997	EP	Abstract
<i>SP</i>	WO 98/57402	12/17/1998	PCT	

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SP	Banwell et al., "VCSE Laser Transmitters for Parallel Data Links", <u>IEEE Journal of Quantum Electronics</u> , Vol. 29, No. 2, February 1993, pp. 635-644.
↑	Bowers et al., "Fused Vertical Cavity Lasers With Oxide Aperture", Final report for MICRO project 96-042, Industrial Sponsor: Hewlett Packard, 4 pages, 1996.
	Catchmark et al., "High Temperature CW Operation of Vertical Cavity Top Surface-Emitting Lasers", CLEO 1993, p. 138.
	Chemla et al., "Nonlinear Optical Properties of Semiconductor Quantum Wells", <u>Optical Nonlinearities and Instabilities in Semiconductors</u> , Academic Press, Inc., Copyright 1988, pp. 83-120.
	Choe, et al., "Lateral oxidation of AIAs layers at elevated water vapour pressure using a closed-chamber system," Letter to the Editor, Semiconductor Science Technology, 15, pp. L35-L38, August 2000.
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	Choquette et al., "High Single Mode Operation from Hybrid Ion Implanted/Selectively Oxidized VCSELs", 200 IEEE 17th International Semiconductor Laser Conference, Monterrey, CA pages 59-60, 2000.
	Choquette et al., "Lithographically-Defined Gain Apertures Within Selectively Oxidized VCSELs", paper CtuL6, Conference on Lasers and Electro-Optics, San Francisco, California (2000).
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	Chua, et al., "Low-Threshold 1.57- μ m VC-SEL's Using Strain-Compensated Quantum Wells and Oxide/Metal Backmirror," IEEE Photonics Technology Letters, Vol 7, No. 5, pp. 444-446, May 1995.
	Chua, et al., "Planar Laterally Oxidized Vertical-Cavity Lasers for Low-Threshold High-Density Top-Surface-Emitting Arrays," IEEE Photonics Technology Letters, Vol. 9, No. 8, pp. 1060-1062, August 1997.
↓	Cox, J. A., et al., "Guided Mode Grating Resonant Filters for VCSEL Applications", <u>Proceedings of the SPIE</u> , The International Society for Optical Engineering, Diffractive and Holographic Device Technologies and Applications V, San Jose, California, January 28-29, 1998, Vol. 3291, pages 70-71.
FP	Farrier, Robert G., "Parametric control for wafer fabrication: New CIM techniques for data analysis," Solid State Technology, pp. 99-105, September 1997.



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51	Fushimi, et al., "Degradation Mechanism in Carbon-doped GaAs Minority-carrier Injection Devices," 34 th Annual IRPS Proceedings, Dallas, TX., April 29-May 2, 1996, 8 pages.
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Se	Jewell et al., "Surface Emitting Microlasers for Photonic Switching & Intership Connections", <u>Optical Engineering</u> , Vol. 29, No. 3, pp. 210-214, March 1990.



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SP	Jiang et al., "High-Frequency Polarization Self-Modulation in Vertical-Cavity Surface-Emitting Lasers", <u>Appl. Phys. Letters</u> , Vol. 63, No. 26, December 27, 1993, pp. 2545-2547.
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EXAMINER: <i>Sunny Park</i>	DATE CONSIDERED: <i>3/10/05</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.